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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,404	09/17/2001	Jiang Peng	42390P11100	1200

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EXAMINER

SHAPIRO, LEONID

ART UNIT	PAPER NUMBER
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2677

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/955,404	<b>Applicant(s)</b> PENG, JIANG	
	<b>Examiner</b> Leonid Shapiro	<b>Art Unit</b> 2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 30 December 1899.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-2, 4-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 4, 12-13, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagaoka (US Patent No. 6,791,773 B2) in view of Oueslati et al. (US Patent No. 6,806,865 B2).

As to claim 1, Nagaoka teaches a portable communication device (See Col. 1, Lines 8-12) comprising:

a display (See Fig. 1, item 6, Col. 5, Lines 60-67); and a detachable joystick (in the reference is equivalent to detachable operating stick (See Fig. 1, item 8); wherein the portable communication device is adapted to receive the detachable joystick (See Fig. 1, item 8, Col. 8, Lines 29-34), and the detachable joystick provides a user input indicated with a display (See Fig. 4, item 8, Col. 7, Lines 1-15).

Nagaoka does not show the detachable joystick is capable of being stored within the portable communication device when not in use.

Oueslati et al. teaches the detachable joystick is capable of being stored within the portable communication device when not in use (See Figs. 1, 3, item 230, Col. 4, Lines 11-17).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Oueslati et al. teaching into Nagaoka system in order to provide a stylus having a detachable portion (See Col. 2, Lines 13-19 in the Oueslati et al. reference).

As to claim 12, Nagaoka teaches a method comprising:  
providing user input to a portable communication device using detachable joystick (See Fig. 4, item 8, Col. 7, Lines 1-15).

Nagaoka does not show the detachable joystick is capable of being stored within the portable communication device when not in use.

Oueslati et al. teaches the detachable joystick is capable of being stored within the portable communication device when not in use (See Figs. 1, 3, item 230, Col. 4, Lines 11-17).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Oueslati et al. teaching into Nagaoka system in order to provide a stylus having a detachable portion (See Col. 2, Lines 13-19 in the Oueslati et al. reference).

As to claims 4, 13, Nagaoka teaches the detachable joystick 9operatinal stick in the reference) is adapted to indicate desired movement of a cursor on the display (in the reference operational stick is used instead of a set of push buttons) (See Fig. 4, items 2, 7-8 Page 2, Col. 7, Lines 1-15).

As to claim 11 Nagaoka teaches the portable communication device is a cellular phone (See Fig. 1, Col. 1, Lines 5-12).

2. Claims 2, 7-8, 11, 17-18, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagaoka and Oueslati et al. as aforementioned in claims 1, 14, 16 and 19 in view Hoggarth (Pub. No.: US 2002/0057257 A1).

As to claim 2, Nagaoka and Oueslati et al. do not show the detachable joystick comprises a user depressible button.

Hoggarth teaches the detachable joystick comprises a user depressible button (See Fig. 4, item 80, in description See Page 3, paragraph 0033).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Nagaoka and Oueslati et al. apparatus in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

As to claims 7-8, 17, 20, Nagaoka and Oueslati et al. do not show an active operational mode of the portable communication device is initiated upon placement of the detachable joystick into portable communication device and an inactive operational mode of the portable communication device is initiated upon removal of the detachable joystick from portable communication device.

Hoggarth teaches the detachable joystick trigger closes the electrical circuit causing a signal to be relayed to the COM1 port (See Fig. 4, items 90,120,122, in description See Page 3, paragraph 0032).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Nagaoka and Oueslati et al. apparatus to start an

active operational mode of the portable communication device is initiated upon placement of the detachable joystick into portable communication device and an inactive operational mode of the portable communication device is initiated upon removal of the detachable joystick from portable communication device in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

As to claim 18, Nagaoka and Oueslati et al. do not show initiating a cellular communication with the detachable joystick.

Hoggarth teaches the detachable joystick trigger closes the electrical circuit causing a signal to be relayed to the COM1 port (See Fig. 4, items 90,120,122, in description See Page 3, paragraph 0032).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Nagaoka and Lehtinen et al. apparatus to initiating a cellular communication with the with the detachable joystick in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

3. Claims 21, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caravella et al. (US Patent No. 6,041,221) in view of Nagaoka and Oueslati et al.

Caravella et al. teaches an apparatus comprising: a processor (See Fig. 1, item 18, in description See Col. 1, Lines 9-19 and Col. 2, Lines 10-17); a static random access memory coupled to the processor (See Fig. 1, item 24, in description See Col. 1,

Lines 9-19 and Col. 2, Lines 10-17); communication module to transmit a wireless communications (See Fig. 1, items 12,14,16, in description See Col. 1, Lines 9-19 and Col. 2, Lines 10-17).

Caravella et al. do not show a display and detachable joystick to provide a user input indicated with the display.

Nagaoka teaches display (See Fig. 1, item 6, Col. 5, Lines 60-67); and a detachable joystick to provide a user input indicated with a display (See Fig. 4, item 8, Col. 7, Lines 1-15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Nagaoka display and detachable joystick in Caravella et al. apparatus in order to make an image system so compact that it can be mounted on a portable telephone (See Col. 1, Lines 39-43 in Nagaoka reference).

Caravella et al. and Nagaoka do not show the detachable joystick is capable of being stored within the portable communication device when not in use.

Oueslati et al. teaches the detachable joystick is capable of being stored within the portable communication device when not in use (See Figs. 1, 3, item 230, Col. 4, Lines 11-17).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Oueslati et al. teaching into Nagaoka system in order to provide a stylus having a detachable portion (See Col. 2, Lines 13-19 in the Oueslati et al.). As to claim 23 Lehtinen et al. teaches apparatus is adapted to store the detachable joystick (stylus) when not in use (See Fig. 2, item 16, Col. 4, Lines 2-22).

As to claim 23, teaches the detachable joystick is capable of being stored within the portable communication device when not in use (See Figs. 1, 3, item 230, Col. 4, Lines 11-17).

4. Claims 22, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caravella et al. and Oueslati et al., Nagaoka as aforementioned in claim 21 in view Hoggarth.

As to claim 22 Caravella et al. and Oueslati et al., Nagaoka do not show the detachable joystick comprises a user depressible button.

Hoggarth teaches the detachable joystick comprises a user depressible button (See Fig. 4, item 80, in description See Page 3, paragraph 0033).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Caravella et al. and Oueslati et al., Nagaoka apparatus in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

As to claim 24, Caravella et al. and Oueslati et al., Nagaoka do not show an active operational mode of the portable communication device is initiated upon placement of the detachable joystick into portable communication device and an inactive operational mode of the portable communication device is initiated upon removal of the detachable joystick from portable communication device.



Hoggarth teaches the detachable joystick trigger closes the electrical circuit causing a signal to be relayed to the COM1 port (See Fig. 4, items 90,120,122, in description See Page 3, paragraph 0032).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Caravella et al. and Oueslati et al., Nagaoka apparatus to start an active operational mode of the portable communication device is initiated upon placement of the detachable joystick into portable communication device and an inactive operational mode of the portable communication device is initiated upon removal of the detachable joystick from portable communication device in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

5. Claims 5,14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oueslati et al., Nagaoka as aforementioned in claims 1, 13 in view Chan et al. (US Patent No. 6,346,938).

Oueslati et al., Nagaoka do not show the detachable joystick is adapted to select an icon on the display.

Chan et al. teaches pushing forward on the joystick moves user icon location (See Fig. 8, items 805-806, in description See Col. 11, Lines 4-7).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Chan et al. approach in Oueslati et al., Nagaoka apparatus in order to

navigate through application software (See Page 1, paragraph 0002 in the Oueslati et al. reference).

6. Claim 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Oueslati et al., Nagaoka and Chan et al. as aforementioned in claim 14 in view of Hoggarth.

Oueslati et al., Nagaoka and Chan et al. do not show the detachable joystick comprises a user depressible button.

Hoggarth teaches the detachable joystick comprises a user depressible button (See Fig. 4, item 80, in description See Page 3, paragraph 0033).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Hoggarth approach in Oueslati et al., Nagaoka and Chan et al. apparatus in order to devise a seamless mechanically and electrically integrated joystick (See Page1, paragraph 0013 in Hoggarth reference).

7. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oueslati et al., Nagaoka as aforementioned in claims 1.

As to claim 9, Oueslati et al., Nagaoka do not show detachable joystick comprises ink.

Since critically of usage of ink was not shown in specification or drawings, it would have been obvious to one of ordinary skill in the art at the time of the invention to assume that pen tip in Lehtinen et al., Nagaoka apparatus will contain ink. Therefore,

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the presence or absence of ink in the pen tip fails to patentably distinguish over the Nagaoka reference.

As to claim 10, Oueslati et al., Nagaoka do not show the detachable joystick is adapted to indicate movement across the display on pixel-by-pixel basis.

Since critically of pixel-by-pixel not shown in specification or drawings, it would have been obvious to one of ordinary skill in the art at the time of the invention to assume that movement in Oueslati et al., Nagaoka apparatus will be done on pixel-by-pixel basis or on group of pixels-by-group of pixels. Therefore, pixel-by-pixel movement fails to patentably distinguish over the Nagaoka reference.

8. Claim 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caravella et al., Oueslati et al., Nagaoka as aforementioned in claims 21.

Caravella et al., Oueslati et al., Nagaoka do not show detachable joystick comprises ink.

Since critically of usage of ink was not shown in specification or drawings, it would have been obvious that Caravella et al., Oueslati et al., Nagaoka apparatus will contain ink. Therefore, the presence or absence of ink in the pen tip fails to patentably distinguish over the Nagaoka reference.

9. Claims 6, 16, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oueslati et al., Nagaoka as aforementioned in claim 1 in view of LeHtinen et al. (US Patent No. 6,518,957 B1).

As to claim 6, Oueslati et al., Nagaoka do not disclose motion sensors (in the reference is equivalent to touch screen) sense movement of the detachable joystick.

Lehtinen et al. teaches motion sensors (in the reference is equivalent to touch screen) sense movement of the detachable joystick (See Fig 2, items 6, 16, Col. 2, Lines 27-31).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Lehtinen et al. approach in Oueslati et al., Nagaoka apparatus in order to disable the touch sensitive screen when data input apparatus in the device (See Col. 1, Lines 55-57 in the Lehtinen et al. reference).

As to claims 16,19, Oueslati et al., Nagaoka do not disclose inserting and removing the detachable joystick into the portable communication device.

Lehtinen et al. teaches inserting and removing the detachable joystick into the portable communication device (See Figs. 2, 4, item 16, Col. 4, lines 2-22).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Lehtinen et al. approach in Oueslati et al., Nagaoka apparatus in order to disable the touch sensitive screen when data input apparatus in the device (See Col. 1, Lines 55-57 in the Lehtinen et al. reference).

### ***Response to Arguments***

10. Applicant's arguments filed on 04.14.05 with respect to claim 1-3, 4-25 have been considered but are moot in view of the new ground(s) of rejection.

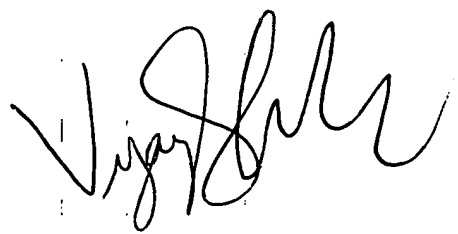
***Telephone inquire***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LS  
06.22.05



**VIJAY SHANKAR**  
**PRIMARY EXAMINER**